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Liew, Choong-Chin

<120> Method for the Detection of Gene Transcripts in Blood and Uses
Thereof

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<150> US

<151> 2000-01-04

<150> US 60/115,125

<151> 1999-01-06

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<170> PatentIn version 3.2

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25 gaaaaanttt tccggggggc ccacccggga agggntnccg gggaaggg 168

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cccacatttc cattttaat atatacttg cttacaaat attataatat gttttaaatt 180
40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaa ataagcattc 240
tttgaatata tatttagttt ttaatgtgg taggaaaatc aaagccagag ggagtagaaa 300
caaaatttgt gattttctaa atacttctg gctgcaggga agaaaccacg tcccaggcga 360
45 agtctacct aattgatga taaaattaca tggaagggat tctgttggc atgaggacct 420

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438

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 15 aaagggggaa ggcccccaa accggggggg gggnaaaaag gtgggttcc cccttttcc 180
 aattccaaa accaatttc aaaaggnaaa ccaacnttc caaaatggg aaagg 235

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45 caaattgggg ggnaaaccaa atttaagggg ggaagggggg gnccccccg ggaaaggccc 180

aaggggggaa aattttccg ggggtgggtg gggggaacca atttaagggg ggggccccg 240

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15

ctgtacttga actctaaaac tgttgagaaa actcagtgt tactccaaca gattcatttc 180

aaatagctgt aaaaggtatg ttactccag aagaccagag ttgcttctt tgaactctc 240

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attccttggg cctaggaacc ctcatcacc tcacccaac gtcaaccag atcttctctt 300

ccataaacag cactccctca gggccctgcc tgacacaggc atagactgtc atgttgatt 360

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tttaggcggc accccaacaa caccaggccc tactttttcc aaggncggggg aagcccatgg 180

45 gtcttgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa 240

tg 242

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 tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggaggtt 120
 15 gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180

c 181

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ataatggaag atagctntga ggatnaacnc tggtnaggg 100

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 aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag 180
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 ggaagaattg tatgtgggag ttttaatgg tctcatttca ttggctataa ctgagtaca 180
 aggagaaata taactgcaga ggagcttga aaatttagtt cagctgaggg taaaggaaga 240
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 acgctctttt tgccgatcac caaacctagg cggggatgat caagctggtt atcgcgcgct 240
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ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga 420
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 acgagccggg ctggagcggg gggaaaagca aatgtaggca taagtaacga caatgcgggc 120
 45 gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180

gtcgggtact aaggcgtag cgaaggcgaa gcgccgatgt gaaggggggtt aatattcctc 240
 cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300
 5 tgggcgccag caggggcggc ctgcgggcca aaccgaacct caggtcanac ttccaagaaa 360
 agtgggtgaa acgccagcgc atggcaacct gtaccgcaaa ccgacacagg tagccggggg 420
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aagaaggaac ccacctngg ggccaaacaa aaacttaaaa acccccccat ttctncccc 180
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 cantcantng ttgccntntg atacccnana caaaattgaa 100

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30 ggtgctcctg cgtttgact gtgcaggcct ctctatgct gatgcgtctc ccactcctg 180

agctaattc tgctctgctc ctctgtgac atgtggcagc gtgggaaata gccactgtcc 240

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5 actagatttt actgtagatg gtagataaaa gtccagtga aagcaaagat gtgtaatgtt 180

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 tagnaatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc 180
 cantnnnctg gggncccacn nnnngngaact gagagtggat cttgtgtacc tgacnnacca 240
 20 gntntnnagn agggcgctca ctctgattgg tgcacatgg ttacacagtg tgtgcaaaga 300
 ccngnctatc tcactganga tgattgncag ngccnntggg tggcacnang ggnactgatg 360
 25 ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnata 420
 aggttaccnc cttnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa 480
 nctntcnct atagcatga ttttnncag tgcgtcagcc ttganaanga ancnnacttt 540
 30 tgnatagatga nnnngtctc ncccttgngg ctnacaaatt ccancacctt tggtggcngc 600
 agccnttaag ancactntt ttgggttgcg cnttggatg aattacnaat agnntgtttt 660
 35 gttncaggc ccttctgcna aatatgaana aaagngcnct tagctttttg ngggaactgn 720
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caagtacgcn agcncctgaan ctaaagcaag caagaaaaag 100

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<213> Human

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20 tagatatggg aagattatag gaggcgacaa ctaccgagcc tggatagc tgggtgctcaa 180

gaagagtctt agttcattta ttggcccag aaccctctaa tccccttgta atttatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg 300

25 gcctaatagc agccaccatt aagaaagcgt tcgtccaca cccactacct aaaaatcgaa 360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

30 ataagtaacc tgaaaacatt ctctctgca taagccctgc gttggattat atcctgcact 480

gacaattaac tgcccgaata tctacaatcc aacct 515

35 <210> 55

<211> 176

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 40 agcctgcct cattagacca agacagcaag gttncctg gtcactagat gaaatt 176

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 45 <212> DNA
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 <223> n is a, c, g, or t

<400> 56
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 10 atgtgggatg tgacctocta ggactcacct tgcacagctg ggtgcagcag ggataggtaa 120
 ggatttgggg ttagaggta caattgcctt ttatggta gagaaaggct ctggggctgg 180
 15 agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240
 gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtgggtg atgctggcag 300
 acattgttat tgccatt 317
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<210> 57
 <211> 209
 <212> DNA
 25 <213> Human

<400> 57
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 aggagaattg cgtcatttaa agcctgttga cgctttctc ccgcagacga atggaaagat 180
 taattgggag tgggggctga aacaattcg 209
 35

<210> 58
 <211> 262
 <212> DNA
 40 <213> Human

<400> 58
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 45 acctgggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat 120

caaatcaccg gcatggagat tgcgcctgtg gtcccaaat actcgggctg ggacacgatg 180

agttgcttgg cccaaggaag gaggggtgta tggctgatca cactggtccg cctgggtgac 240

5 agagcgagac tccatctcta at 262

<210> 59

<211> 430

10 <212> DNA

<213> Human

<400> 59

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cccgggggag gggatatccg ttataaacc ccaagggtat ttcttagca aaatacttaa 180

20 aaccggccgg ggtttttata caaactggga acccactttt gaaaaattt ggccttttga 240

tctgggatgg gaatatgagt tttatacat ttcatcttct tttgggcaa aggcccgtt 300

aagtattccc ccccgggggg cctttacaaa aagggcgggt taaaagctt ttgggcccc 360

25 ctagggaatt gtttaacac ctaaaaccc ctgcttcct taaagggcg ttcttaatt 420

tgggggcggc 430

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<210> 60

<211> 350

<212> DNA

<213> Human

35

<400> 60

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40 tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca 180

tgattccgaa tcaccacag acagctcgat caccatacgt atcacccaac atatatacct 240

45 tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcat 300

taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga 350

<210> 61

5 <211> 515

<212> DNA

<213> Human

<400> 61

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aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt 180

15

taaaaaggat tcattagtgt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg 240

aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg 300

20 agaaaagaag aattatttca taaacctgtg tggaatggct aggcaatcat ctggaaaaaa 360

atgaagttga ataataaaaa tatattctac actagcacia attataaata aagcagtgat 420

ttaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa ttctttata 480

25

gtcttctaaa atatatgact ttatgaattc tgact 515

<210> 62

30 <211> 611

<212> DNA

<213> Human

<400> 62

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aataatccac cagatacaag ttgcatcaa ctctgtgaa atatttttt tcctttttgt 180

40

tgggcatttt tatggctctaa atatagaatg accaatgcct ctagaacaaa ctgacactgg 240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttatttaaa 300

45 ttgttaaaa ttgatataatt gatataataa acttcttttg ccagtgttgg tggcacacgc 360

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 agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa 480
 5 ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac 540
 caaaccagac taaaccaaac caaaccagac cagaccagac cagaccagac cagaccagac 600
 cagaccaaac t 611
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 15 <213> Human
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 gaacacatgc tgaagatcat ctaactcaat atggcgcata ttctatgtc ttgctgccc 180
 ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag 240
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 40 aggcacattg ttctctatg ccccgtacg ctttgccta gagctcggcg gtatctatat 240
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 45 ctgattaga 309

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 5 <213> Human

 <400> 65
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 10 tggaaataaag tggaaatagac tcgaatggaa tggaaatgcaa tggaaatggac tcgaatggaa 120
 agggatggaa tggactcgaa gggaaatggaa tggaaatggat tcgaatggaa aggaatggaa 180
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 15 tgtaatggaa tagactcgaa tggaaatggaa cgaaattt 278

 <210> 66
 20 <211> 142
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 <213> Human

 <400> 66
 25 agttctcctt aggttaatta atggaatgca atcccaatga aaatgtcacc aaagttgttt 60
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 atagctagta aactccccct gt 142
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 35 <213> Human

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 40 aaagatgatc tctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg 120
 attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180
 ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc 240
 45 caaagctcca tticcttgaa agcagaagtg taatattact tcttag 286

<210> 68
 <211> 179
 5 <212> DNA
 <213> Human

 <400> 68
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 10 tagaagtcatt tttttatta taaaacatgt ggattagata ttttcattta tgtgattaaa 120
 ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaatt 179

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 30 cttcagtcta agaacgtaaa tccatggaag aattttaagc aggggtgtgc cttgaccaca 120
 ttttgaattc taaactgtct ctgggtgggt gtgggtgcc ccaagagcat gtgttcattg 180
 agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatgggtg 240
 35 gtgacattgg agataagcag gtagacagat tctcagtgtg ttaggagaga aaaatcaata 300
 ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt 360
 40 ctcaatttct gcatgagaaa aaaggtggac 390

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 45 <212> DNA
 <213> Human

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 <223> n is a, c, g, or t

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 tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180
 15 agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat 240
 gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat 300
 gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga 360
 20 tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca 420
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 25 g 481

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 10 <223> n is a, c, g, or t

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 15 ngacgcgccg tacaggntna attatggan cttacatggn aaaggggcan ctcaatgtcc 120

 cacag 125

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 35 aatgaatct gagatgaaat gagatgaaaa ntgatacgaa aatgatata aaaaatatga 180
 cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaata tgacatgaaa 240
 40 tgaaatgaga tgatatgaaa tgacataatg aatgatgaa ttgatgatat tgaaatgaaa 300
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 catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420
 45 tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

<210> 73
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 gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa 180
 30 tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga 240
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 35 tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga 360
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 aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg 480
 40 atgagatgaa atgatgaaat 500

<210> 74
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<223> n is a, c, g, or t

<400> 74

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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120
cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180
20 tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240
aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg 299

25 <210> 75
<211> 155
<212> DNA
<213> Human

30 <400> 75
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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga 120
35 tgagatgaca tgaaataatg aaacgaaatt gaaat 155

40 <210> 76
<211> 367
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cgccatgaaa ttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt 180

45 tatcggtagc aggaatggat gttcgatttc gtagaatacg cctgagagac ggccaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300

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30 tcagtgttg gggtttattt taaaagaat aggggtgccac cagatgttct ttagtggagg 180

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 30 tattacaaa atatttgac cattantaaa gantagggcc aaccnaatt ttcttgaaa 180
 ttccgttaa atagccgtta aatgtttta cccattcat attggatacc ttaaattata 240
 35 ataatggatt ttattgttaa attgtgtgtg tgtggtgtg atgccctgtc tttctctc 300
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 35 ccctgatggt caagtattta agaccctatg cnaatatttt ttaccttttc taataaacca 120

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 30 ccaataaaaa aaacntttt ggaaangggg aaa 213

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gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180

15 aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat 240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa 300

20 tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa 360

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 25 gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata 120
 ntagggacct gctctataag cccatcataa ttattatga agttataaca agtaaaacag 180
 taaggatttt ggcatggaat agagaaccca gaaacagacc caatgcatgg gtacaggata 240
 30 taacacaggg aaatgagggg caatatatgg ttctgggata attatttata tggggaaaat 300
 aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg 360
 35 catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg 420
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15 aggaaggaag gaagg 135

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aacttcctca gaaggacaag agacaaagaa gtgggggagg ccttcctatc catagctgag 180
35 agggtttatt cttgtgggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc 240

aaccacagct agacagaact ttgtagattt tgggggggtt aaaaggcctc aagcaaattc 300

40 taaaactttc ttgaacccc ctggcatagg ctcagtttcc ctgact 346

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45 <212> DNA
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<400> 85

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5 gaaaagaaaa tggtttttt tgccgaaatc aaccgggtaa 100

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10 <212> DNA

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tcctttaccc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg 180

35 ttaaccatcg caatgccga ccgagtttaa ggaccactcc ccaccttct cattagttaa 240

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gtcgagtccc tcttctctc ttatgcatt tagagcgctt tcgtaagagt tttccctaga 360

40 ttcttctaag cgtagcgcgt ctactccaat gtttcgtta atccagcccg aactaacgcc 420

gcggaggagt cgaaccgtct actcctatcc cgtcggctcg gatttactac aggagctaag 480

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 5 <213> Human

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 acagccaaac cgggtccgcc aaggcctccg tcgtttata atatattccg ttacgtata 180
 aggaacgaac ccccttcat taccacgggc ccgcgtccgc ctcttctcc attcgcaaca 240
 15 gtctattcc ttacagctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa 300
 gatagcaaag attaccagc ttctattcct cgtcccagag ccgagtaaat cgaagtttat 360
 20 agaggcggaa tccaaccatt caagagtat aacaagtat cggcactcgg gggatcagaa 420
 tataaactta atgtccctt tattctccg gacgccctt ttaaccatt ctctctatct 480
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 aattaaggna aggnntaaaa aatttaacca angggggggtt taaagggnnt tttttttta 180

 aaaaaaaagg taaancccc ccctttttt ttgggttggg gtgggaaaat ttgggaanc 240
 45 ctaaccccc gggtttttgg gtttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa 300

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cgggtggaac tattaaaaca taagttaat cggattttaa aattttaaaa tcaaaaaaaaa 120

15 taaaatatat gcaacctcc attccaagga agtatgatgt tactagatta tctgaaaatt 180

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 40 atgggnaant tnnnnngggg ggggggaaaa ancccnnggg tnanngggg cccngggntt 180
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 aaancnttt naaanacngn nanaatttn ccnnncggg gagngngga nntttttt 300
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 nttnnancn ngntnaacat cacagctnct ccnagcatca ccctgctagn tancngnggg 180
 30 ttttctctta tntgngngcn naacatctgc nngctctgnt annaanaatt ncataccgcn 240

 canngtctnt gacgntgtga tgcatacgt tgggcagagn gancaatang tgngcatatg 300

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atgagatgat gaaataaaat gatgaaatga gatgtgatga gatgaaatga ngagatgaaa 180

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 gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180
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gaaatgaaat gatgagatga aatgaggtga aatgaaatta gatgaaacgt aatgagatga 180

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atgatgaaat taaatgatga aatgaaataa tgaaatggaa atgaaatgga aatgatgaga 300

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ntgagatgaa aagagatgaa atgagatgaa accgaaatga tgagatgaaa tgaggtgaaa 420

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tgaacactgt aaaaatgaac ttgaaacag ttgggtagga cccaacaga aaatgatgta 300

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aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggtt 180

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